



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

September 17, 2015

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 15-0399, 35th Avenue Site
Superfund Remedial

FROM: Denise Goddard
Office of Quality Assurance Chemist

THRU: Ray Terhune, Acting Chief
Office of Quality Assurance

TO: Richard Jardine

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Office of Quality Assurance. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Accreditations:

Total Metals (TMTL)

Total Metals
Total Metals

CLP Inorganics (Soil)
CLP Inorganics (Water)



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Report Narrative for Work Order: C153401 Analysis: TMTL

Inorganic Data Review and Validation Report

Site Name: 35th Avenue Site, Birmingham, AL

Case No.: 45468, Project No. 15-0399, Work Order Nos. C153401, C153701

ELEMENT Sample IDs.: C153401-01 – 64, C153701-01, 02

Sampling Date(s): 7/27 – 30/15

Validated Time of Sample Receipt: 7/31/15

Laboratory Performing Inorganic Analyses: Chemtech Consulting Group, Mountainside, NJ

Date Received from Lab: 8/17/15 and 9/2/15

Analyses conducted: Total Metals

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 1 water sample (an equipment rinse blank) and 65 soil samples for total metals by ICP-AES analyses according to the contract Statement of Work ISM02.2 and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Additional details are provided below.

Examination of laboratory blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as ten times the blank levels to discount possible false positives due to contamination in laboratory blanks.

ICP-AES Analysis

PE Sample Results

The performance evaluation sample recoveries for metals in soil by ICP-AES were initially scored as action high for lead and warning high for arsenic by the web-based SPS Web software. The laboratory was subsequently submitted another round of performance evaluation samples and the field samples were reanalyzed along with the new performance evaluation samples. The remainder of this memorandum and the attached spreadsheets refer to only the reanalyzed results. A formal precision analysis was not performed between the two rounds of analyses but it was noticed that there were order of magnitude differences in a few field sample results between the original analysis and the reanalysis.

The new performance evaluation samples scored within limits and no qualifiers were applied on the basis of these criteria. There was not a performance evaluation sample submitted for metals in water by ICP-AES.

Other QA/QC Results

Matrix spike recoveries were below control limits for arsenic in samples C153401-18, 24, 57, and 61. The results were 67%, 66%, 69%, and 67% recovery, respectively. The post-digestion spike recoveries were 87%, 93%, 83%, and 84%, respectively. The arsenic results for samples C153401-18, 24, 57, and 61 were considered estimated and "J" qualified.

It was noted that percent solids were not reanalyzed but the original bench sheet information was included with the analysis date changed.

A Stage 4 validation consisting of manual review was performed on the inorganic samples submitted for this case.

cc: Nardina Turner



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SAMPLES INCLUDED IN THIS REPORT

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
Rinsate_073015	C153401-01	9D11	9D11	Equipment Rinse Blank	7/30/15 15:30
CV0360A-CS-0-4	C153401-02	9C98	9C98	Surface Soil	7/28/15 09:40
CV0605A-CS-0-4	C153401-03	9C89	9C89	Surface Soil	7/28/15 15:15
CV0605A-CSD-0-4	C153401-04	9C90	9C90	Surface Soil	7/28/15 15:15
CV0605B-CS-0-4	C153401-05	9C91	9C91	Surface Soil	7/28/15 15:30
CV0605C-CS-0-4	C153401-06	9C92	9C92	Surface Soil	7/29/15 08:20
CV0605D-CS-0-4	C153401-07	9C93	9C93	Surface Soil	7/29/15 08:40
CV0606A-CS-0-4	C153401-08	9C94	9C94	Surface Soil	7/28/15 10:45
CV0806A-CS-12	C153401-09	9C76	9C76	Surface Soil	7/29/15 09:50
CV0806A-CS-18	C153401-10	9C77	9C77	Surface Soil	7/29/15 10:00
CV0806A-CS-6	C153401-11	9C75	9C75	Surface Soil	7/29/15 09:50
CV0806A-GS-24	C153401-12	9C78	9C78	Surface Soil	7/29/15 10:05
CV0822A-CS-12	C153401-13	9C63	9C63	Surface Soil	7/29/15 14:15
CV0822A-CS-18	C153401-14	9C64	9C64	Surface Soil	7/29/15 14:20
CV0822A-CS-6	C153401-15	9C62	9C62	Surface Soil	7/29/15 14:10
CV0822A-GS-24	C153401-16	9C65	9C65	Surface Soil	7/29/15 14:25
CV0822B-CS-12	C153401-17	9C85	9C85	Surface Soil	7/30/15 09:15
CV0822B-CS-6	C153401-18	9C84	9C84	Surface Soil	7/30/15 09:10
CV0822B-GS-18	C153401-19	9C86	9C86	Surface Soil	7/30/15 09:15
CV0822B-GS-24	C153401-20	9C87	9C87	Surface Soil	7/30/15 09:25
CV0822E-CS-6	C153401-21	9C88	9C88	Surface Soil	7/30/15 13:15
CV0883A-CS-0-4	C153401-22	9C95	9C95	Surface Soil	7/28/15 12:40
CV0883A-CSD-0-4	C153401-23	9C96	9C96	Surface Soil	7/28/15 12:40
CV0883B-CS-0-4	C153401-24	9C97	9C97	Surface Soil	7/28/15 12:55
CV1149A-CS-12	C153401-25	9C59	9C59	Surface Soil	7/28/15 09:20
CV1149A-CS-18	C153401-26	9C60	9C60	Surface Soil	7/28/15 09:45
CV1149A-CS-24	C153401-27	9C61	9C61	Surface Soil	7/28/15 10:15
CV1149A-CS-6	C153401-28	9C58	9C58	Surface Soil	7/28/15 09:15
CV1151A-CS-12	C153401-29	9C81	9C81	Surface Soil	7/30/15 10:50
CV1151A-CS-6	C153401-30	9C79	9C79	Surface Soil	7/30/15 10:45
CV1151A-CSD-6	C153401-31	9C80	9C80	Surface Soil	7/30/15 10:45
CV1151A-GS-18	C153401-32	9C82	9C82	Surface Soil	7/30/15 10:50
CV1151A-GS-24	C153401-33	9C83	9C83	Surface Soil	7/30/15 11:00
FM0108C-CS-12	C153401-34	9C72	9C72	Surface Soil	7/29/15 12:25



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Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

FM0108C-CS-18	C153401-35	9C73	9C73	Surface Soil	7/29/15 12:30
FM0108C-CS-24	C153401-36	9C74	9C74	Surface Soil	7/29/15 12:35
FM0108C-CS-6	C153401-37	9C70	9C70	Surface Soil	7/29/15 12:20
FM0108C-CSD-6	C153401-38	9C71	9C71	Surface Soil	7/29/15 12:20
HP0001A-CS-0-4	C153401-39	9D00	9D00	Surface Soil	7/29/15 10:15
HP0001B-CS-0-4	C153401-40	9D01	9D01	Surface Soil	7/29/15 10:25
HP0027A-CS-0-4	C153401-41	9D08	9D08	Surface Soil	7/29/15 12:20
HP0027B-CS-0-4	C153401-42	9C99	9C99	Surface Soil	7/29/15 13:05
HP0050B-CS-12	C153401-43	9C67	9C67	Surface Soil	7/28/15 15:45
HP0050B-CS-18	C153401-44	9C68	9C68	Surface Soil	7/28/15 15:50
HP0050B-CS-24	C153401-45	9C69	9C69	Surface Soil	7/28/15 15:55
HP0050B-CS-6	C153401-46	9C66	9C66	Surface Soil	7/28/15 15:40
HP0117A-CS-0-4	C153401-47	9D07	9D07	Surface Soil	7/30/15 10:05
HP0117B-CS-0-4	C153401-48	9D06	9D06	Surface Soil	7/30/15 10:20
HP0147A-CS-0-4	C153401-49	9D04	9D04	Surface Soil	7/30/15 08:25
HP0147B-CS-0-4	C153401-50	9D05	9D05	Surface Soil	7/30/15 08:40
HP0188A-CS-12	C153401-51	9C50	9C50	Surface Soil	7/27/15 16:15
HP0188A-CS-18	C153401-52	9C51	9C51	Surface Soil	7/27/15 16:20
HP0188A-CS-24	C153401-53	9C52	9C52	Surface Soil	7/27/15 16:25
HP0188A-CS-6	C153401-54	9C48	9C48	Surface Soil	7/27/15 16:05
HP0188A-CSD-6	C153401-55	9C49	9C49	Surface Soil	7/27/15 16:05
HP0210A-CS-0-4	C153401-56	9D09	9D09	Surface Soil	7/30/15 14:10
HP0210A-CSD-0-4	C153401-57	9D10	9D10	Surface Soil	7/30/15 14:10
HP0237B-CS-12	C153401-58	9C54	9C54	Surface Soil	7/28/15 13:40
HP0237B-CS-18	C153401-59	9C55	9C55	Surface Soil	7/28/15 13:50
HP0237B-CS-24	C153401-60	9C57	9C57	Surface Soil	7/28/15 14:00
HP0237B-CS-6	C153401-61	9C53	9C53	Surface Soil	7/28/15 13:30
HP0237B-CSD-12	C153401-62	9C56	9C56	Surface Soil	7/28/15 13:40
HP0336A-CS-0-4	C153401-63	9D02	9D02	Surface Soil	7/30/15 09:15
HP0336B-CS-0-4	C153401-64	9D03	9D03	Surface Soil	7/30/15 09:25



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP36	Identification/Concentration of analyte not confirmed by ICP-MS.
J	The identification of the analyte is acceptable; the reported value is an estimate.
OM-1	Matrix Spike Recovery less than method control limits

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Total Metals

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Contract Lab Case: 45468

Sample ID: Rinsate 073015

Lab ID: C153401-01

MD No: 9D11 CHEM

Station ID:

Matrix: Equipment Rinse Blank

D No: 9D11 CHEM

Date Collected: 7/30/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	10	U	ug/L	10	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	10	U	ug/L	10	8/28/15	8/28/15	CLP ISM02.2 P



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Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0360A-CS-0-4

Lab ID: C153401-02

MD No: 9C98 CHEM

Station ID: CV0360A

Matrix: Surface Soil

D No: 9C98 CHEM

Date Collected: 7/28/15 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	82		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	15	CLP36	mg/kg dry	0.90	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	160		mg/kg dry	0.90	8/28/15	8/28/15	CLP ISM02.2 P



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Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0605A-CS-0-4

Lab ID: C153401-03

MD No: 9C89 CHEM

Station ID: CV0605A

Matrix: Surface Soil

D No: 9C89 CHEM

Date Collected: 7/28/15 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	80		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	18	CLP36	mg/kg dry	0.85	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	710		mg/kg dry	0.85	8/28/15	8/28/15	CLP ISM02.2 P



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Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0605A-CSD-0-4

Lab ID: C153401-04

MD No: 9C90 CHEM

Station ID: CV0605A

Matrix: Surface Soil

D No: 9C90 CHEM

Date Collected: 7/28/15 15:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	81		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	18	CLP36	mg/kg dry	0.86	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	590		mg/kg dry	0.86	8/28/15	8/28/15	CLP ISM02.2 P



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Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0605B-CS-0-4

Lab ID: C153401-05

MD No: 9C91 CHEM

Station ID: CV0605B

Matrix: Surface Soil

D No: 9C91 CHEM

Date Collected: 7/28/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	82		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	24	CLP36	mg/kg dry	0.92	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	460		mg/kg dry	0.92	8/28/15	8/28/15	CLP ISM02.2 P



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Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0605C-CS-0-4

Lab ID: C153401-06

MD No: 9C92 CHEM

Station ID: CV0605C

Matrix: Surface Soil

D No: 9C92 CHEM

Date Collected: 7/29/15 8:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	82		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	17	CLP36	mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	280		mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P



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Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0605D-CS-0-4

Lab ID: C153401-07

MD No: 9C93 CHEM

Station ID: CV0605D

Matrix: Surface Soil

D No: 9C93 CHEM

Date Collected: 7/29/15 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	79		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	22	CLP36	mg/kg dry	0.91	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	440		mg/kg dry	0.91	8/28/15	8/28/15	CLP ISM02.2 P



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Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0606A-CS-0-4

Lab ID: C153401-08

MD No: 9C94 CHEM

Station ID: CV0606A

Matrix: Surface Soil

D No: 9C94 CHEM

Date Collected: 7/28/15 10:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	88		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	13	CLP36	mg/kg dry	0.76	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	170		mg/kg dry	0.76	8/28/15	8/28/15	CLP ISM02.2 P



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Total Metals

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Contract Lab Case: 45468

Sample ID: CV0806A-CS-12

Lab ID: C153401-09

MD No: 9C76 CHEM

Station ID: CV0806A

Matrix: Surface Soil

D No: 9C76 CHEM

Date Collected: 7/29/15 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	18	CLP36	mg/kg dry	0.83	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	74		mg/kg dry	0.83	8/28/15	8/28/15	CLP ISM02.2 P



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Contract Lab Case: 45468

Sample ID: CV0806A-CS-18

Lab ID: C153401-10

MD No: 9C77 CHEM

Station ID: CV0806A

Matrix: Surface Soil

D No: 9C77 CHEM

Date Collected: 7/29/15 10:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	89		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	15	CLP36	mg/kg dry	0.79	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	84		mg/kg dry	0.79	8/28/15	8/28/15	CLP ISM02.2 P



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Contract Lab Case: 45468

Sample ID: CV0806A-CS-6

Lab ID: C153401-11

MD No: 9C75 CHEM

Station ID: CV0806A

Matrix: Surface Soil

D No: 9C75 CHEM

Date Collected: 7/29/15 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	15	CLP36	mg/kg dry	0.83	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	90		mg/kg dry	0.83	8/28/15	8/28/15	CLP ISM02.2 P



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Total Metals

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Contract Lab Case: 45468

Sample ID: CV0806A-GS-24

Lab ID: C153401-12

MD No: 9C78 CHEM

Station ID: CV0806A

Matrix: Surface Soil

D No: 9C78 CHEM

Date Collected: 7/29/15 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	14	CLP36	mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	68		mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0822A-CS-12

Lab ID: C153401-13

MD No: 9C63 CHEM

Station ID: CV0822A

Matrix: Surface Soil

D No: 9C63 CHEM

Date Collected: 7/29/15 14:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	89		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	14	CLP36	mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	62		mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0822A-CS-18

Lab ID: C153401-14

MD No: 9C64 CHEM

Station ID: CV0822A

Matrix: Surface Soil

D No: 9C64 CHEM

Date Collected: 7/29/15 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	10	CLP36	mg/kg dry	0.90	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	30		mg/kg dry	0.90	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0822A-CS-6

Lab ID: C153401-15

MD No: 9C62 CHEM

Station ID: CV0822A

Matrix: Surface Soil

D No: 9C62 CHEM

Date Collected: 7/29/15 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	19	CLP36	mg/kg dry	0.79	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	120		mg/kg dry	0.79	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0822A-GS-24

Lab ID: C153401-16

MD No: 9C65 CHEM

Station ID: CV0822A

Matrix: Surface Soil

D No: 9C65 CHEM

Date Collected: 7/29/15 14:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	83		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	12	CLP36	mg/kg dry	0.89	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	63		mg/kg dry	0.89	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0822B-CS-12

Lab ID: C153401-17

MD No: 9C85 CHEM

Station ID: CV0822B

Matrix: Surface Soil

D No: 9C85 CHEM

Date Collected: 7/30/15 9:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	88		%		8/28/15	8/29/15	CLP Inorganics
7440-38-2	Arsenic	18	CLP36	mg/kg dry	0.78	8/28/15	8/29/15	CLP ISM02.2 P
7439-92-1	Lead	260		mg/kg dry	0.78	8/28/15	8/29/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0822B-CS-6

Lab ID: C153401-18

MD No: 9C84 CHEM

Station ID: CV0822B

Matrix: Surface Soil

D No: 9C84 CHEM

Date Collected: 7/30/15 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	79		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	25	J, CLP36, QM-1	mg/kg dry	0.89	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	350		mg/kg dry	0.89	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0822B-GS-18

Lab ID: C153401-19

MD No: 9C86 CHEM

Station ID: CV0822B

Matrix: Surface Soil

D No: 9C86 CHEM

Date Collected: 7/30/15 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%		8/28/15	8/29/15	CLP Inorganics
7440-38-2	Arsenic	9.7	CLP36	mg/kg dry	0.80	8/28/15	8/29/15	CLP ISM02.2 P
7439-92-1	Lead	32		mg/kg dry	0.80	8/28/15	8/29/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0822B-GS-24

Lab ID: C153401-20

MD No: 9C87 CHEM

Station ID: CV0822B

Matrix: Surface Soil

D No: 9C87 CHEM

Date Collected: 7/30/15 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%		8/28/15	8/29/15	CLP Inorganics
7440-38-2	Arsenic	8.3	CLP36	mg/kg dry	0.84	8/28/15	8/29/15	CLP ISM02.2 P
7439-92-1	Lead	22		mg/kg dry	0.84	8/28/15	8/29/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0822E-CS-6

Lab ID: C153401-21

MD No: 9C88 CHEM

Station ID: CV0822E

Matrix: Surface Soil

D No: 9C88 CHEM

Date Collected: 7/30/15 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	84		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	26	CLP36	mg/kg dry	0.86	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	150		mg/kg dry	0.86	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0883A-CS-0-4

Lab ID: C153401-22

MD No: 9C95 CHEM

Station ID: CV0883A

Matrix: Surface Soil

D No: 9C95 CHEM

Date Collected: 7/28/15 12:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	79		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	27	CLP36	mg/kg dry	0.92	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	130		mg/kg dry	0.92	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0883A-CSD-0-4

Lab ID: C153401-23

MD No: 9C96 CHEM

Station ID: CV0883A

Matrix: Surface Soil

D No: 9C96 CHEM

Date Collected: 7/28/15 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	77		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	26	CLP36	mg/kg dry	0.92	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	140		mg/kg dry	0.92	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV0883B-CS-0-4

Lab ID: C153401-24

MD No: 9C97 CHEM

Station ID: CV0883B

Matrix: Surface Soil

D No: 9C97 CHEM

Date Collected: 7/28/15 12:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	81		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	27	J, CLP36, QM-1	mg/kg dry	0.94	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	130		mg/kg dry	0.94	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV1149A-CS-12

Lab ID: C153401-25

MD No: 9C59 CHEM

Station ID: CV1149A

Matrix: Surface Soil

D No: 9C59 CHEM

Date Collected: 7/28/15 9:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	80		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	24	CLP36	mg/kg dry	0.92	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	340		mg/kg dry	0.92	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV1149A-CS-18

Lab ID: C153401-26

MD No: 9C60 CHEM

Station ID: CV1149A

Matrix: Surface Soil

D No: 9C60 CHEM

Date Collected: 7/28/15 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	81		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	23	CLP36	mg/kg dry	0.86	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	220		mg/kg dry	0.86	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV1149A-CS-24

Lab ID: C153401-27

MD No: 9C61 CHEM

Station ID: CV1149A

Matrix: Surface Soil

D No: 9C61 CHEM

Date Collected: 7/28/15 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	84		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	15	CLP36	mg/kg dry	0.87	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	94		mg/kg dry	0.87	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV1149A-CS-6

Lab ID: C153401-28

MD No: 9C58 CHEM

Station ID: CV1149A

Matrix: Surface Soil

D No: 9C58 CHEM

Date Collected: 7/28/15 9:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	83		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	20	CLP36	mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	270		mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV1151A-CS-12

Lab ID: C153401-29

MD No: 9C81 CHEM

Station ID: CV1151A

Matrix: Surface Soil

D No: 9C81 CHEM

Date Collected: 7/30/15 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	83		%		8/28/15	8/29/15	CLP Inorganics
7440-38-2	Arsenic	23	CLP36	mg/kg dry	0.90	8/28/15	8/29/15	CLP ISM02.2 P
7439-92-1	Lead	2600		mg/kg dry	0.90	8/28/15	8/29/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV1151A-CS-6

Lab ID: C153401-30

MD No: 9C79 CHEM

Station ID: CV1151A

Matrix: Surface Soil

D No: 9C79 CHEM

Date Collected: 7/30/15 10:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	82		%		8/28/15	8/29/15	CLP Inorganics
7440-38-2	Arsenic	20	CLP36	mg/kg dry	0.91	8/28/15	8/29/15	CLP ISM02.2 P
7439-92-1	Lead	210		mg/kg dry	0.91	8/28/15	8/29/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV1151A-CSD-6

Lab ID: C153401-31

MD No: 9C80 CHEM

Station ID: CV1151A

Matrix: Surface Soil

D No: 9C80 CHEM

Date Collected: 7/30/15 10:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	82		%		8/28/15	8/29/15	CLP Inorganics
7440-38-2	Arsenic	23	CLP36	mg/kg dry	0.92	8/28/15	8/29/15	CLP ISM02.2 P
7439-92-1	Lead	240		mg/kg dry	0.92	8/28/15	8/29/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV1151A-GS-18

Lab ID: C153401-32

MD No: 9C82 CHEM

Station ID: CV1151A

Matrix: Surface Soil

D No: 9C82 CHEM

Date Collected: 7/30/15 10:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	76		%		8/28/15	8/29/15	CLP Inorganics
7440-38-2	Arsenic	5.2	CLP36	mg/kg dry	0.91	8/28/15	8/29/15	CLP ISM02.2 P
7439-92-1	Lead	14		mg/kg dry	0.91	8/28/15	8/29/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: CV1151A-GS-24

Lab ID: C153401-33

MD No: 9C83 CHEM

Station ID: CV1151A

Matrix: Surface Soil

D No: 9C83 CHEM

Date Collected: 7/30/15 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%		8/28/15	8/29/15	CLP Inorganics
7440-38-2	Arsenic	4.2	CLP36	mg/kg dry	0.97	8/28/15	8/29/15	CLP ISM02.2 P
7439-92-1	Lead	14		mg/kg dry	0.97	8/28/15	8/29/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: FM0108C-CS-12

Lab ID: C153401-34

MD No: 9C72 CHEM

Station ID: FM0108C

Matrix: Surface Soil

D No: 9C72 CHEM

Date Collected: 7/29/15 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	7.1	CLP36	mg/kg dry	0.78	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	19		mg/kg dry	0.78	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: FM0108C-CS-18

Lab ID: C153401-35

MD No: 9C73 CHEM

Station ID: FM0108C

Matrix: Surface Soil

D No: 9C73 CHEM

Date Collected: 7/29/15 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	7.4	CLP36	mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	18		mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: FM0108C-CS-24

Lab ID: C153401-36

MD No: 9C74 CHEM

Station ID: FM0108C

Matrix: Surface Soil

D No: 9C74 CHEM

Date Collected: 7/29/15 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	7.2	CLP36	mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	25		mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: FM0108C-CS-6

Lab ID: C153401-37

MD No: 9C70 CHEM

Station ID: FM0108C

Matrix: Surface Soil

D No: 9C70 CHEM

Date Collected: 7/29/15 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	10	CLP36	mg/kg dry	0.78	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	80		mg/kg dry	0.78	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: FM0108C-CSD-6

Lab ID: C153401-38

MD No: 9C71 CHEM

Station ID: FM0108C

Matrix: Surface Soil

D No: 9C71 CHEM

Date Collected: 7/29/15 12:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	88		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	9.4	CLP36	mg/kg dry	0.80	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	75		mg/kg dry	0.80	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0001A-CS-0-4

Lab ID: C153401-39

MD No: 9D00 CHEM

Station ID: HP0001A

Matrix: Surface Soil

D No: 9D00 CHEM

Date Collected: 7/29/15 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	81		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	13	CLP36	mg/kg dry	0.86	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	240		mg/kg dry	0.86	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0001B-CS-0-4

Lab ID: C153401-40

MD No: 9D01 CHEM

Station ID: HP0001B

Matrix: Surface Soil

D No: 9D01 CHEM

Date Collected: 7/29/15 10:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	83		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	13	CLP36	mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	160		mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0027A-CS-0-4

Lab ID: C153401-41

MD No: 9D08 CHEM

Station ID: HP0027A

Matrix: Surface Soil

D No: 9D08 CHEM

Date Collected: 7/29/15 12:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	78		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	26	CLP36	mg/kg dry	0.88	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	520		mg/kg dry	0.88	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0027B-CS-0-4

Lab ID: C153401-42

MD No: 9C99 CHEM

Station ID: HP0027B

Matrix: Surface Soil

D No: 9C99 CHEM

Date Collected: 7/29/15 13:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	80		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	22	CLP36	mg/kg dry	0.85	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	1300		mg/kg dry	0.85	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0050B-CS-12

Lab ID: C153401-43

MD No: 9C67 CHEM

Station ID: HP0050B

Matrix: Surface Soil

D No: 9C67 CHEM

Date Collected: 7/28/15 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	14	CLP36	mg/kg dry	0.77	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	38		mg/kg dry	0.77	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0050B-CS-18

Lab ID: C153401-44

MD No: 9C68 CHEM

Station ID: HP0050B

Matrix: Surface Soil

D No: 9C68 CHEM

Date Collected: 7/28/15 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	16	CLP36	mg/kg dry	0.84	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	34		mg/kg dry	0.84	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0050B-CS-24

Lab ID: C153401-45

MD No: 9C69 CHEM

Station ID: HP0050B

Matrix: Surface Soil

D No: 9C69 CHEM

Date Collected: 7/28/15 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	13	CLP36	mg/kg dry	0.84	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	37		mg/kg dry	0.84	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0050B-CS-6

Lab ID: C153401-46

MD No: 9C66 CHEM

Station ID: HP0050B

Matrix: Surface Soil

D No: 9C66 CHEM

Date Collected: 7/28/15 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	12	CLP36	mg/kg dry	0.83	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	46		mg/kg dry	0.83	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0117A-CS-0-4

Lab ID: C153401-47

MD No: 9D07 CHEM

Station ID: HP0117A

Matrix: Surface Soil

D No: 9D07 CHEM

Date Collected: 7/30/15 10:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	84		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	20	CLP36	mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	110		mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0117B-CS-0-4

Lab ID: C153401-48

MD No: 9D06 CHEM

Station ID: HP0117B

Matrix: Surface Soil

D No: 9D06 CHEM

Date Collected: 7/30/15 10:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	78		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	22	CLP36	mg/kg dry	0.95	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	190		mg/kg dry	0.95	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0147A-CS-0-4

Lab ID: C153401-49

MD No: 9D04 CHEM

Station ID: HP0147A

Matrix: Surface Soil

D No: 9D04 CHEM

Date Collected: 7/30/15 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	81		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	14	CLP36	mg/kg dry	0.90	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	150		mg/kg dry	0.90	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0147B-CS-0-4

Lab ID: C153401-50

MD No: 9D05 CHEM

Station ID: HP0147B

Matrix: Surface Soil

D No: 9D05 CHEM

Date Collected: 7/30/15 8:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	80		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	16	CLP36	mg/kg dry	0.94	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	2100		mg/kg dry	0.94	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0188A-CS-12

Lab ID: C153401-51

MD No: 9C50 CHEM

Station ID: HP0188A

Matrix: Surface Soil

D No: 9C50 CHEM

Date Collected: 7/27/15 16:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	34	CLP36	mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	68		mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0188A-CS-18

Lab ID: C153401-52

MD No: 9C51 CHEM

Station ID: HP0188A

Matrix: Surface Soil

D No: 9C51 CHEM

Date Collected: 7/27/15 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	16	CLP36	mg/kg dry	0.77	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	74		mg/kg dry	0.77	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0188A-CS-24

Lab ID: C153401-53

MD No: 9C52 CHEM

Station ID: HP0188A

Matrix: Surface Soil

D No: 9C52 CHEM

Date Collected: 7/27/15 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	79		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	6.8	CLP36	mg/kg dry	0.88	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	31		mg/kg dry	0.88	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0188A-CS-6

Lab ID: C153401-54

MD No: 9C48 CHEM

Station ID: HP0188A

Matrix: Surface Soil

D No: 9C48 CHEM

Date Collected: 7/27/15 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	18	CLP36	mg/kg dry	0.81	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	120		mg/kg dry	0.81	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0188A-CSD-6

Lab ID: C153401-55

MD No: 9C49 CHEM

Station ID: HP0188A

Matrix: Surface Soil

D No: 9C49 CHEM

Date Collected: 7/27/15 16:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	86		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	20	CLP36	mg/kg dry	0.81	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	110		mg/kg dry	0.81	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0210A-CS-0-4

Lab ID: C153401-56

MD No: 9D09 CHEM

Station ID: HP0210A

Matrix: Surface Soil

D No: 9D09 CHEM

Date Collected: 7/30/15 14:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	77		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	24	CLP36	mg/kg dry	0.96	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	98		mg/kg dry	0.96	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0210A-CSD-0-4

Lab ID: C153401-57

MD No: 9D10 CHEM

Station ID: HP0210A

Matrix: Surface Soil

D No: 9D10 CHEM

Date Collected: 7/30/15 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	21	J, CLP36, QM-1	mg/kg dry	0.93	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	100		mg/kg dry	0.93	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0237B-CS-12

Lab ID: C153401-58

MD No: 9C54 CHEM

Station ID: HP0237B

Matrix: Surface Soil

D No: 9C54 CHEM

Date Collected: 7/28/15 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	16	CLP36	mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	80		mg/kg dry	0.82	8/28/15	8/28/15	CLP ISM02.2 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0237B-CS-18

Lab ID: C153401-59

MD No: 9C55 CHEM

Station ID: HP0237B

Matrix: Surface Soil

D No: 9C55 CHEM

Date Collected: 7/28/15 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	17	CLP36	mg/kg dry	0.79	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	84		mg/kg dry	0.79	8/28/15	8/28/15	CLP ISM02.2 P



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Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0237B-CS-24

Lab ID: C153401-60

MD No: 9C57 CHEM

Station ID: HP0237B

Matrix: Surface Soil

D No: 9C57 CHEM

Date Collected: 7/28/15 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	19	CLP36	mg/kg dry	0.84	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	140		mg/kg dry	0.84	8/28/15	8/28/15	CLP ISM02.2 P



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Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0237B-CS-6

Lab ID: C153401-61

MD No: 9C53 CHEM

Station ID: HP0237B

Matrix: Surface Soil

D No: 9C53 CHEM

Date Collected: 7/28/15 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%		8/28/15	8/29/15	CLP Inorganics
7440-38-2	Arsenic	18	J, CLP36, QM-1	mg/kg dry	0.86	8/28/15	8/29/15	CLP ISM02.2 P
7439-92-1	Lead	560		mg/kg dry	0.86	8/28/15	8/29/15	CLP ISM02.2 P



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Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0237B-CSD-12

Lab ID: C153401-62

MD No: 9C56 CHEM

Station ID: HP0237B

Matrix: Surface Soil

D No: 9C56 CHEM

Date Collected: 7/28/15 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	15	CLP36	mg/kg dry	0.77	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	71		mg/kg dry	0.77	8/28/15	8/28/15	CLP ISM02.2 P



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D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0336A-CS-0-4

Lab ID: C153401-63

MD No: 9D02 CHEM

Station ID: HP0336A

Matrix: Surface Soil

D No: 9D02 CHEM

Date Collected: 7/30/15 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	78		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	21	CLP36	mg/kg dry	0.87	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	170		mg/kg dry	0.87	8/28/15	8/28/15	CLP ISM02.2 P



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D.A.R.T. Id: 15-0399

Project: 15-0399, 35th Avenue Site - Reported by Denise Goddard

Total Metals

Project: 15-0399, 35th Avenue Site

Contract Lab Case: 45468

Sample ID: HP0336B-CS-0-4

Lab ID: C153401-64

MD No: 9D03 CHEM

Station ID: HP0336B

Matrix: Surface Soil

D No: 9D03 CHEM

Date Collected: 7/30/15 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	79		%		8/28/15	8/28/15	CLP Inorganics
7440-38-2	Arsenic	20	CLP36	mg/kg dry	0.94	8/28/15	8/28/15	CLP ISM02.2 P
7439-92-1	Lead	380		mg/kg dry	0.94	8/28/15	8/28/15	CLP ISM02.2 P